

Rail Enhancement Fund FY 2009 Applications

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Guiding Principles of Rail Enhancement Fund

- Intended to support growth of freight and/or passenger rail transportation
 - Railways or railroad equipment
 - Rolling stock
 - Rights-of-way
 - Facilities
- Projects funded by minimum 30% local/private funds and maximum 70% Commonwealth funds
- Project policy goals
 - Has a public benefit ratio greater than or equal to one
 - Addresses needs identified in state, regional, or local plans
 - Encourages economic development
 - Focuses on quick turn-around, high impact projects that lead to an integrated SYIP for passenger and freight rail
 - Contributes to the effectiveness of the entire multimodal transportation system



REF Benefit Cost Analysis Approach

- Benefits computed from the incremental difference in rail vs. truck transportation costs for new capacity (existing usage is not included in the analysis)
- □ Train service categorized by commodity to determine tonnage of material and distance to final destination
- Unit transportation costs relate to: congestion, environment, road maintenance, and safety
- Primary benefits calculated in B/C analysis
 - Reduction in highway congestion costs
 - Reduction in highway maintenance costs
 - Reduction in highway accident costs
 - Reduction in environmental/pollution costs
- Additional benefits calculated:
 - Number of trucks reduced on highways
 - Fuel savings (gallons)
 - CO₂ emissions avoided (tons)
 - New employment (jobs)



REF Agreement Terms

- Railroad must certify capacity constraint for projects that will primarily increase capacity
- Grantee must provide baseline performance data
- Grantee is required to achieve increased performance as a result of project
- ☐ Failure to meet performance requirements entitles Commonwealth to repayment plus interest
- □ Grantee required to maintain project at no cost to the Commonwealth
- Must address other needs that contribute to the effectiveness of the entire multimodal transportation system



FY09 Applications

- Norfolk Southern 22 projects
 - Freight: Coal Corridor Initiatives (3 projects)
 - Freight: Route 460 / Heartland Corridor Initiatives (6 projects)
 - Freight: I-81 Crescent Corridor (10 projects)
 - NS Passenger Corridor Initiatives (3 projects)
- □ CSX Transportation 4 projects
 - Passenger: Fredericksburg, Richmond,
 and Newport News Passenger Rail Improvements
 - Passenger: VRE Fredericksburg Washington, DC Third Track
 - Freight: National Gateway (2 projects)
- □ Virginia Railway Express (VRE) 4 projects
 - Passenger: VRE Cherry Hill Station and Third Track Phase 2
 - Passenger: VRE Second Platforms
 - Passenger: Automatic Train Control System
 Arlington Washington, DC
 - Passenger: VRE Gainesville Haymarket Extension Phase 2



FY09 Applications

- Virginia Port Authority / Virginia Int. Terminals 3 projects
 - NIT Central Rail Yard Expansion
 - Norfolk Portsmouth Belt Line Improvements
 - Craney Island Rail Connection
- □ Port of Richmond / City of Richmond 1 project
 - Deepwater Terminal Railroad Improvements
- NCDOT Department of Rail 1 project
 - SEHSR Tier II EIS Phase 2



Alexandria
Powell's Creek

Arkendale

Fredericksburg

Doswell

LEGEND

- Passenger Rail (
 - **Passenger Rail Corridor Initiatives**
 - 11) NS: VRE Route Alexandria to Manassas
 - 12) NS: Alexandria to Lynchburg
 - 6) Fredericksburg, Richmond and Newport News Passenger Rail Improvements
 - 4) VRE Cherry Hill Station and Third Track Phase 2
 - 3) VRE Gainesville Havmarket Extension Phase 2
 - 5) VRE Fredericksburg Washington, DC Third Track
- Virginia Port Authority / Virginia International Terminals
 - 1) NIT Central Rail Yard Expansion
 - 9) Norfolk Portsmouth Belt Line Improvements
 - 2) Craney Island Rail Connection



- 13) South Central Virginia Intermodal Facility (SCVIF)
- 14) Roanoke Region Intermodal Facility (Supplemental)



8) Kilby Rail Yard Improvements
7) Double-Stack Rail Clearance



10) SEHSR Tier II EIS Phase 2

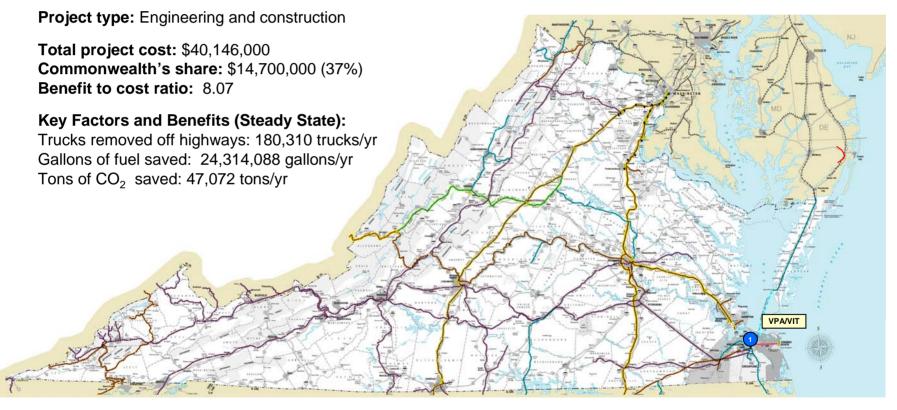


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Virginia Port Authority / Virginia International Terminals
NIT Central Rail Yard Expansion

Description: The Norfolk Int. Terminals (NIT) project is a two-phase, \$40 million rail intermodal yard expansion. The project will expand NIT's on-dock intermodal rail yard to a total capacity of 37,000 track feet through construction of an additional 24,000 feet of railroad track, ties and ballast, several switches, heavy-duty pavement in the rail yard area, container handling areas, and associated civil/site/utility and electrical infrastructure.

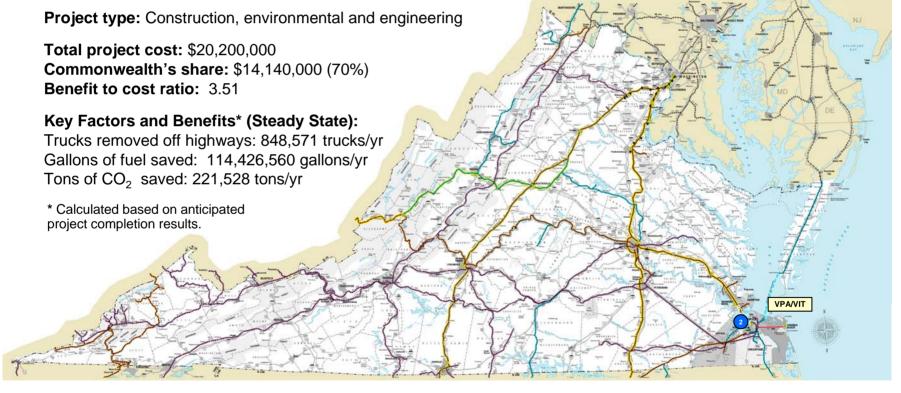


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Virginia Port Authority / Virginia International Terminals Craney Island Rail Connection

Description: The proposed Craney Island Marine Terminal (CIMT) is being developed to transport 50% of containerized cargo by rail through this major new Commonwealth facility. Phase I of the project is the construction of a siding track in the median of Route 164 from the Route 17 highway bridge to the APM Terminal track interface. Phase II includes the planning and design of a new track connection between the APM Terminal to the CIMT on-dock intermodal yard facility.



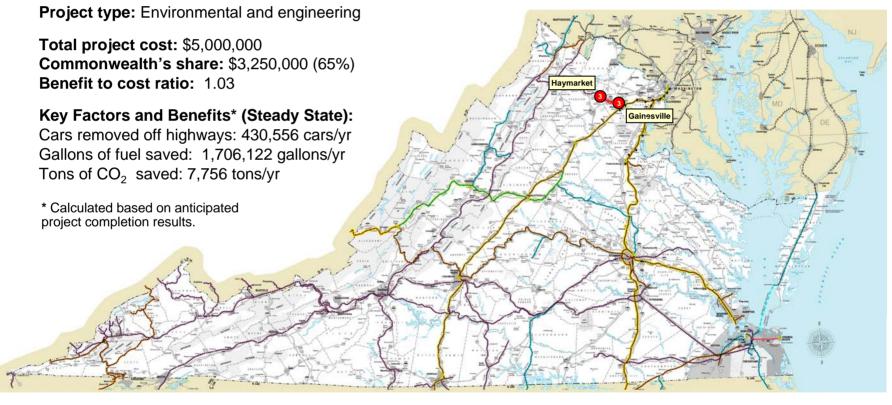
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Passenger Corridor Initiatives
VRE Gainesville - Haymarket Extension Phase 2

Description: The purpose of this project is to extend VRE commuter rail service 11 miles between the City of Manassas and Haymarket in the I-66 rail corridor. The extension would use existing NS rail right-of-way that is currently used exclusively by freight trains. Extensive upgrading of the existing line is anticipated to make tracks suitable for passenger operations. Project includes Phase II environmental work and preliminary design.



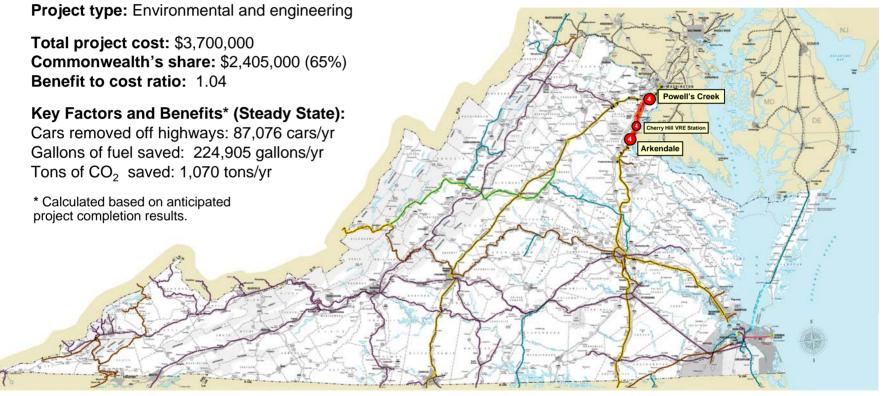
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Passenger Corridor Initiatives
VRE Cherry Hill Station and Third Track Phase 2

Description: The purpose of this project is to improve passenger rail service in the 11.4 mile corridor between Powell's Creek and Arkendale in the I-95 rail corridor. The project includes final design of a third track in CSX right-of-way, including a VRE station at Cherry Hill, slope stabilization, a parking facility and a highway grade separated bridge over CSX tracks.

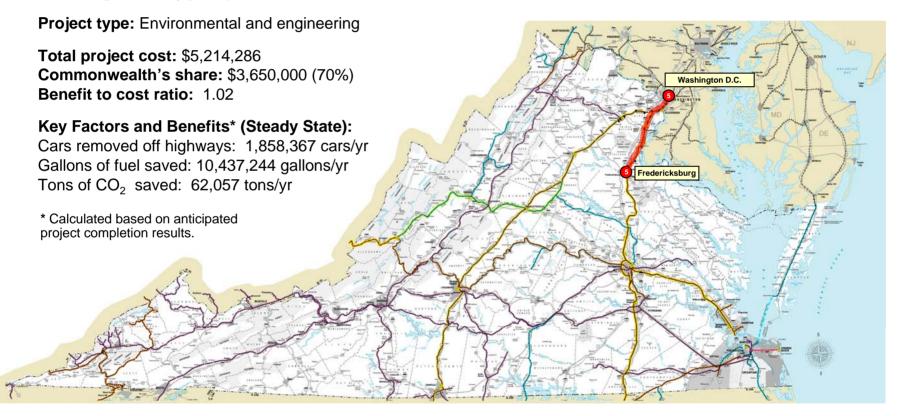


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Passenger Corridor Initiatives VRE Fredericksburg – Washington, DC Third Track

Description: VRE proposes to complete the remaining segments of the CSX third main track from Ravensworth in Washington, DC to Fredericksburg in the I-95 rail corridor. The improvements would increase capacity, significantly reduce delays and improve reliability for VRE, Amtrak and CSX. The project is for environmental and 30% design services (preliminary plans).

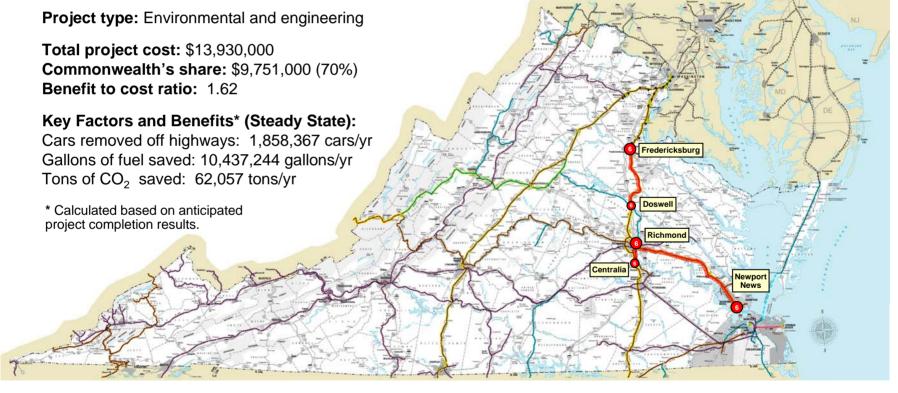




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Passenger Corridor Initiatives
Fredericksburg, Richmond, and Newport News Passenger Rail Improvements

Description: CSX proposes to upgrade its facilities along the route between Fredericksburg, Richmond, Centralia and Newport News to allow existing and new passenger trains to bypass its congested Acca Yard in Richmond, significantly increasing the utilization of Richmond's Main Street Station and improving passenger and freight train performance along the I-95 and I-64 corridors in the Commonwealth. The project is for environmental and 30% design services (preliminary plans).

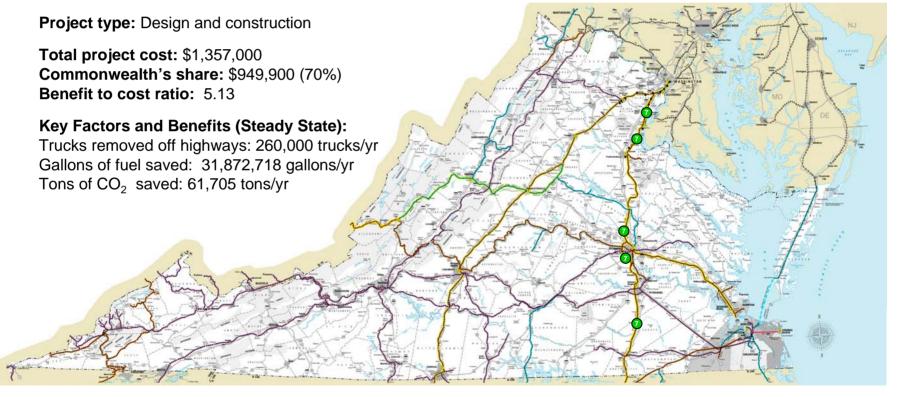






CSX National Gateway Double-Stack Rail Clearance

Description: This project will integrate Virginia into the National Gateway program to provide the Ports of Hampton Roads with an enhanced double-stack rail connection on the CSX system. This project consists of the removal or modification of five existing bridges that obstruct the vertical clearance needed for double-stack rail operations on the I-95 Corridor between Weldon, NC and Washington DC. The project also includes environmental studies and 30% design (preliminary plans) for two new highway grade bridges in Virginia.

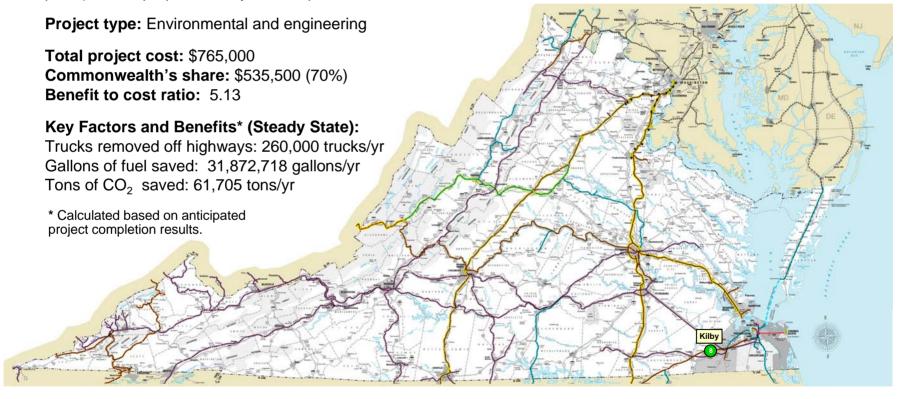


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8 CSX National Gateway Kilby Rail Yard Improvements

Description: The project is located near Suffolk and will extend the existing CSX siding at Kilby to achieve a new 10,000 foot passing siding as well as create two new support tracks of 6,000 feet each. The project will provide improved intermodal service by CSX to the new APM Terminal, VPA's Portsmouth Marine Terminal, and the proposed Craney Island Marine Terminal. The project is for environmental studies and 30% design (preliminary plans) for the proposed Kilby Yard improvements

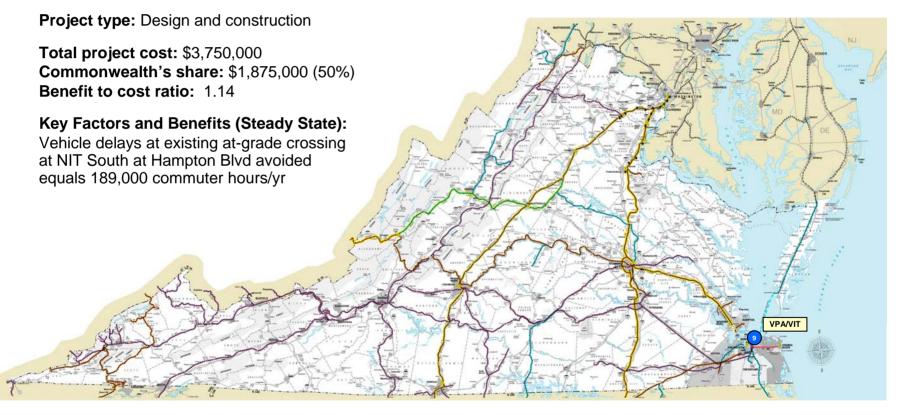


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Virginia Port Authority / Virginia International Terminals
Norfolk Portsmouth Belt Line Improvements

Description: The Virginia Port Authority is separately acquiring approximately 33.5 acres of the existing Norfolk Portsmouth Belt Line rail marshalling yard facilities adjacent to the NIT North Terminal to provide additional train assembly and movement capacity, improved port rail access and routing, and increased operating efficiency. The REF project involves site improvements and the upgrade of 16,632 feet of track.



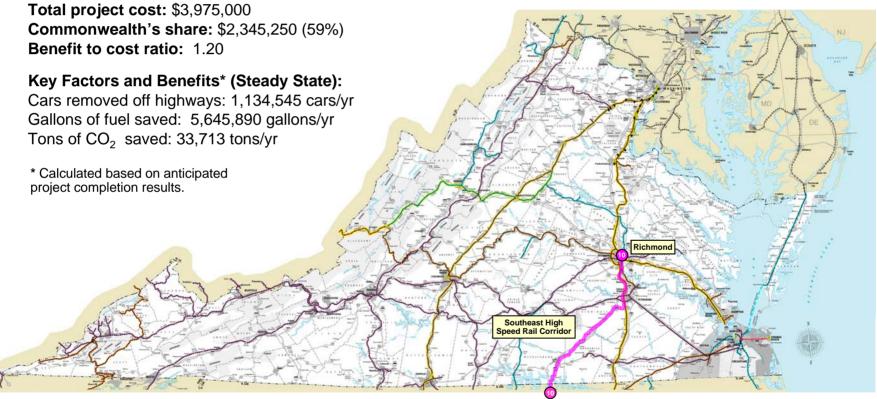
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NCDOT Rail Division SEHSR Tier II EIS Phase 2

Description: Completion of the Tier II Environmental Impact Statement for railway and associated highway improvements for the proposed 168-mile Southeast High Speed Rail Corridor between Richmond and Raleigh, NC.

Project type: Environmental and engineering



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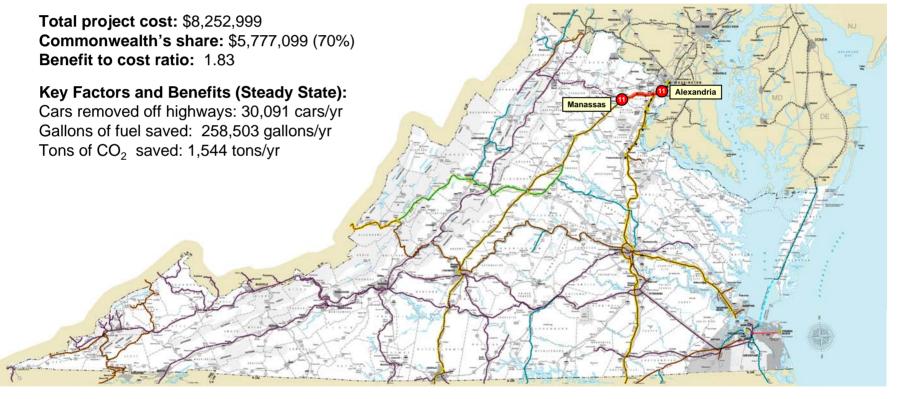
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Passenger Corridor Initiatives

NS: VRE Route - Alexandria to Manassas

Description: VRE is the primary user on the two NS mainline tracks between Alexandria and Manassas. The project will provide capital improvements needed for NS to support Class 4 rail track standards for continued passenger train use of the system.

Project type: Design and construction



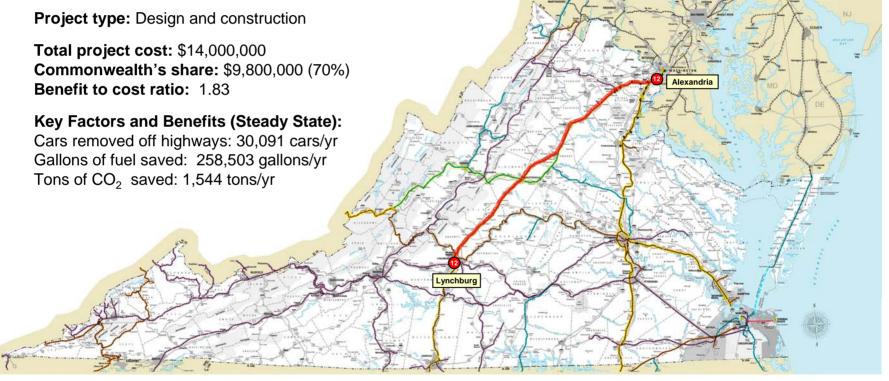
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Passenger Corridor Initiatives NS: Alexandria to Lynchburg

Description: The project will provide improvements to the NS mainline between Washington DC and Lynchburg for a proposed new Amtrak passenger service. Various curve, turnout modifications, speed improvements and potential station modifications are required for the new daily passenger service which will originate and end in Lynchburg. The improvements would also provide for increased speeds and capacity for NS freight operations.

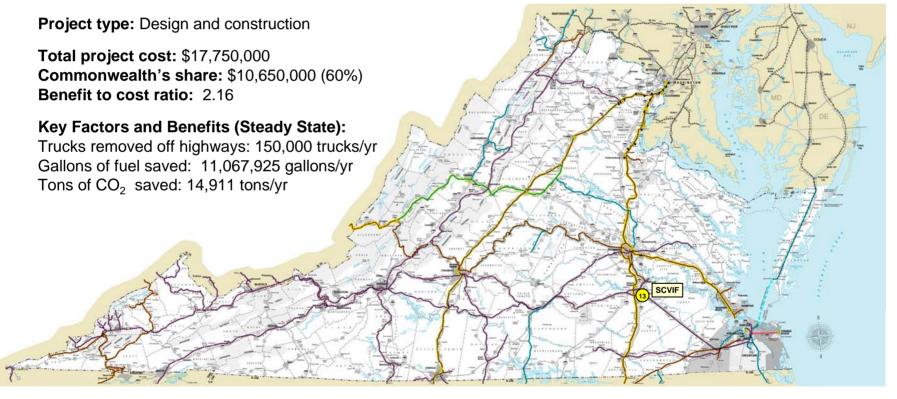


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NS Route 460 / Heartland Corridor Initiatives South Central Virginia Intermodal Facility

Description: The South Central Virginia Intermodal Facility is a new intermodal facility for the Petersburg/Richmond/Emporia Region. The facility will allow the transfer of containers to/from the Ports of Hampton Roads to the Richmond/Petersburg Region by rail rather than by truck (the current method of transfer). The facility is located on the NS Heartland Corridor and will provide regional access to Midwest and west coast markets.



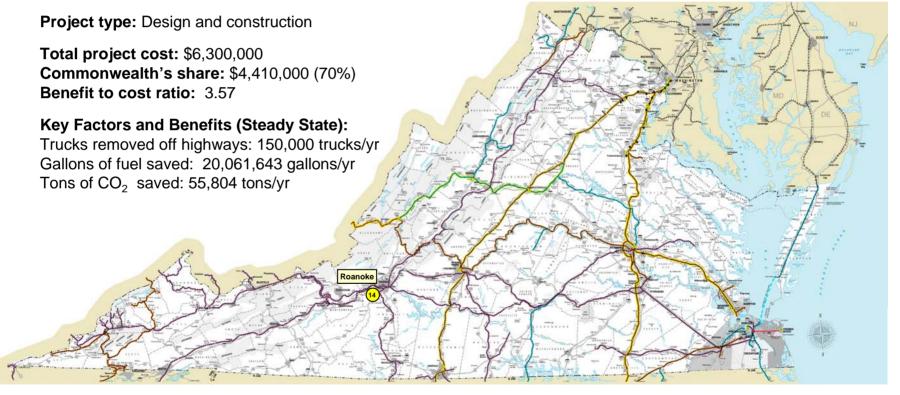
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NS Route 460 / Heartland Corridor Initiatives Roanoke Region Intermodal Facility (Supplemental)

Description: The proposed Roanoke Region Intermodal Facility would allow the transfer of containers to/from the Ports of Hampton Roads to the Roanoke and Southwestern Regions by rail rather than by truck (the current primary method of transfer). The facility would be located on the NS Heartland Corridor and would provide regional access to the Midwest and west coast markets. The project adds additional funding to a previous REF grant for the facility. Project funding would be contingent on a successful site selection for the facility in the Region.

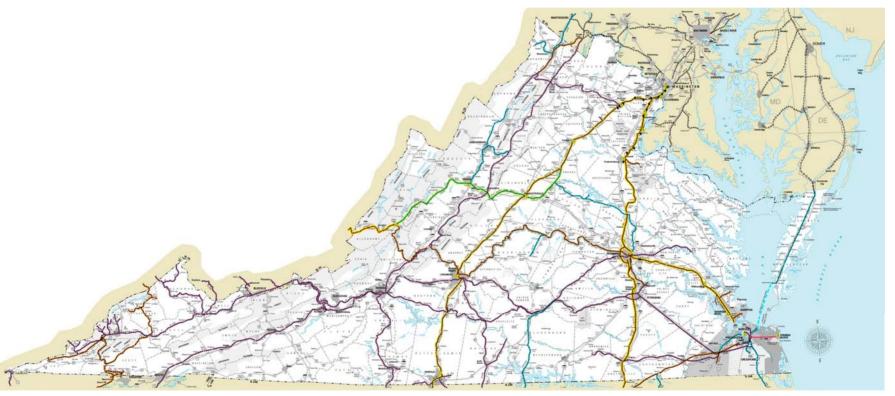


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Statewide Rail Plan

 Passenger and freight projects developed as a result of Statewide Rail Plan



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REF Projects Recommended for Funding

	PROJECT NAME	App.	YEAR						
NO.			2009	2010	2011	2012	2013	2014	TOTAL REF
1	NIT Central Rail Yard Expansion	VPA	\$700,000	\$14,000,000					\$14,700,00
2	Craney Island Rail Connection	VPA				2,100,000	6,020,000	6,020,000	14,140,00
3	VRE Gainesville-Haymarket Extension Phase 2	VRE	1,137,500	1,462,500	650,000				3,250,000
4	VRE Cherry Hill Station & Third Track Phase 2	VRE	399,000	1,596,000	410,000				2,405,00
5	VRE Fredericksburg – Washington, DC Third Track	VRE	1,217,000	2,433,000					3,650,00
6	Fredericksburg, Richmond, and Newport News Passenger Rail Improvements	csx	9,751,000						9,751,00
7	Double-Stack Rail Clearance	csx		326,900	623,000				949,90
8	Kilby Rail Yard Improvements	csx		267,750	267,750				535,50
9	Norfolk Portsmouth Belt Line Improvements	VPA	125,000	1,750,000					1,875,00
10	SEHSR Tier II EIS Phase 2	NCDOT	781,750	781,750	781,750				2,345,25
11	NS: VRE Route - Alexandria to Manassas	NS	649,797	591,837	108,627	2,172,787	1,670,327	583,724	5,777,09
12	NS: Alexandria to Lynchburg	NS		9,800,000					9,800,00
13	South Central Virginia Intermodal Facility	NS						10,650,000	10,650,00
14	Roanoke Region Intermodal Facility (Supplemental)	NS	4,410,000						4,410,00
15	Statewide Rail Plan		38,473,316	5,326,132	29,214,691	33,910,629	31,415,145	25,030,633	163,370,54
	RECOMMENDED PROJECTS		\$57,644,363	\$38,335,869	\$32,055,818	\$38,183,416	\$39,105,472	\$42,284,357	\$247,609,29



REF Projects Not Recommended for Funding

Project Name	Applicant	Project Type	Total REF Requested (\$)	Local Match (\$)	Total Cost (\$)
VRE Second Platforms	VRE	Construction	11,536,000	4,944,000	16,480,000
Deepwater Terminal RR Improvements	PORT	Construction	4,494,456	0	4,494,456
Rte 460 / Heartland Corridor Initiatives A) Kilby Crossovers	NS	Construction	2,450,000	1,050,000	3,500,000
Rte 460 / Heartland Corridor Initiatives B) Pamplin Siding	NS	Construction	4,200,000	1,800,000	6,000,000
Rte 460 / Heartland Corridor Initiatives C) Altavista Line Tunnels Clearances	NS	Construction	16,000,000	6,857,143	22,857,143
Rte 460 / Heartland Corridor Initiatives D) Montgomery Tunnel Clearance	NS	Construction	6,720,000	2,880,000	9,600,000



Next Steps

- RAB will make recommendations to Director on REF program of projects at its May 2008 meeting
- □ CTB will hold pre-allocation public hearings statewide: April – May, 2008
- □ CTB adoption of Six Year Improvement Plan: June 2008
- ☐ Funding availability: July 1, 2008





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